AMENDMENTS TO CLAIMS

1. (Currently amended) A method for collecting temperature data in a <u>computer</u> facility <u>including wherein the facility includes a plurality of <u>computer</u> systems, <u>the</u> <u>method</u> comprising:</u>

coupling a plurality of sensors to at least one each of the computer systems at locations that allow cooling requirements of the facility to be determined; and; connecting each of the plurality of sensors to a central system. [[; and]] utilizing the central system to collect temperature data from each of the plurality of sensors.

Claim 2 (Cancelled)

3. (Original) The method of claim 1 wherein coupling a plurality of sensors to at least one of the systems further comprises:

connecting each of the plurality of sensors to the at least one of the systems via a flexible stalk.

Claims 4-7 (Cancelled)

8. (Currently amended) The method of claim [[5]] 31 wherein each temperature collection module includes the central system includes an embedded control for and the embedded controller is utilized to periodically [[query]] querying the plurality of sensors to [[and]] create an ambient temperature profile.

Claims 9-10 (Cancelled)

11. (Withdrawn) A system for collecting temperature data in a data center wherein the data center includes a plurality of racks of systems comprising: at least one plurality of sensors coupled to the at least one of the rack of systems; means for connecting the at least one plurality of sensors to a central system; and means for

utilizing the central system to collect temperature data from the at least one plurality of sensors.

- 12. (Withdrawn) The system of claim 11 wherein each of the plurality of sensor is coupled to the at least one of the rack of systems via a flexible stalk.
- 13. (Withdrawn) The system of claim 11 wherein the means for connecting the at least one plurality of sensors to a central system comprises an electromechanical connector.
- 14. (Withdrawn) The system of claim 11 wherein the plurality of sensors comprises 8 sensors.
- 15. (Withdrawn) The system of claim 13 wherein the electro-mechanical connector comprises a connector board.
- 16. (Withdrawn) The system of claim 15 wherein the connector board includes at least one RJ-11 type connector.
- 17. (Withdrawn) The system of claim 16 wherein the means for utilizing the central system to collect temperature data from the at least one plurality of sensors further comprises: means for periodically querying the plurality of sensors to collect temperature data related to the at least one rack of systems; and means for creating an ambient temperature profile of the data center based on the temperature data.
- 18. (Withdrawn) A data center comprising: at least one rack of systems; at least one plurality of sensors coupled to the at least one rack of systems; at least one electromechanical connector coupled to the at least one plurality of sensors; and a central computer system coupled to the at least one electro-mechanical connector for collecting temperature data related to the at least one rack of systems.

- 19. (Withdrawn) The data center of claim 18 wherein each of the plurality of sensor is coupled to the at least one of the rack of systems via a flexible stalk.
- 20. (Withdrawn) The data center of claim 18 wherein the at least one electromechanical connector comprises a connector board.
- 21. (Withdrawn) The data center of claim 18 wherein the plurality of sensors comprises 8 sensors.
- 22. (Withdrawn) The data center of claim 18 wherein the central computer system includes logic for: periodically querying the plurality of sensors to collect temperature data related to the at least one rack of systems; and creating a temperature profile of the data center based on the temperature data.
- 23. (Withdrawn) The data center of claim 20 wherein the connector board includes at least one RJ-11 type connector.

Claims 24-26 (Cancelled)

- 27. (Withdrawn) A temperature collection module for collecting temperature data in a data center wherein the data center includes a plurality of racks of systems comprising, a first set of interface electronics for interfacing with a plurality of sensors coupled to at least one of the plurality of racks of systems; temperature collection logic coupled to the first set of interface electronics for collecting temperature data from the plurality of racks of systems; and a second set of interface electronics coupled the temperature collection logic for interfacing with a central computer system.
- 28. (Withdrawn) The module of claim 27 wherein the temperature collection logic further comprises logic for: querying of each of the sensors in the data center; providing an initiation command; reading the measured temperature of each of the sensors; and generating a temperature profile of the data center based on the temperature readings.

- 29. (Withdrawn) The module of claim 28 wherein the temperature profile includes a variety of profiles based on varying locations of the sensors.
- 30. (New) The method of claim 1, wherein each computer system includes a computer rack; wherein coupling the sensors includes coupling multiple sensors to each rack; and wherein connecting the sensors includes connecting each rack of sensors to a dedicated bus, connecting each bus to a temperature collection module, and connecting the module to the central system.
- 31. (New) The method of claim 1, wherein the computer systems are arranged in multiple rows of racks, wherein a dedicated temperature collection module and a dedicated sensor bus are provided for each row; wherein coupling the sensors includes coupling multiple sensors to each row of racks; and wherein connecting the sensors includes connecting each row of sensors to its dedicated module via its dedicated bus, and connecting each module to the central system.
- 32. (new) The method of claim 31, wherein the substations are connected to the central system via an Ethernet connection.
- 33. (New) The method of claim 31, further comprising identifying the sensors to their dedicated temperature collection modules.
- 34. (New) The method of claim 30, wherein the dedicated buses are 1-wire buses.

35. (New) A method for collecting temperature data in a facility including a plurality of systems, the method comprising:

coupling a plurality of sensors to each of the systems;

grouping the systems into multiple groups, each group having a dedicated onewire bus and a dedicated temperature collection module;

connecting each group of sensors to its dedicated module via its dedicated onewire bus; and

connecting each temperature collection module to a central processing system.